



# 2001 Toxics Release Inventory

## NORTH DAKOTA

### Reported Releases and Other Waste Management Activities (in pounds)

	Total
On-site Releases	16,742,343
Air Emissions	4,328,230
Surface Water Discharges	110,470
Underground Injection Class I Wells	0
Underground Injection Class II-V Wells	0
On-site Land Releases to RCRA Subtitle C Landfills	0
Other On-site Land Releases	12,303,643
Off-site Releases (Transfers Off-site to Disposal)*	8,534,710
<b>Total On- and Off-site Releases</b>	<b>25,277,053</b>
Recycled On-site	950
Recycled Off-site	731,887
Energy Recovery On-site	0
Energy Recovery Off-site	19,879
Treated On-site	5,534,778
Treated Off-site**	553,161
Quantity Released On- and Off-site***	25,990,159
<b>Total Production-related Waste Managed</b>	<b>32,830,814</b>
<b>Non-production-related Waste Managed</b>	<b>15,005</b>
<b>Transfers Off-site for Further Waste Management, including Disposal</b>	
Recycling	731,597
Energy Recovery	39,422
Treatment	41,630
Publicly Owned Treatment Works (POTWs)	550,299
Metals and Metal Category Compounds*	532
Non-metal TRI Chemicals**	549,767
Other Off-site Transfers****	0
Transfers Off-site to Disposal (not including metals to POTWs)	9,230,342
<b>Total Transfers Off-site for Further Waste Management, including Disposal</b>	<b>10,593,290</b>

- \* Transfers to POTWs of metals and metal category compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.
- \*\* Transfers to POTWs of non-metals are included in treated off-site waste management activity.
- \*\*\* Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.
- \*\*\*\* Transfers reported without a valid waste management code.

### For More Information . . .

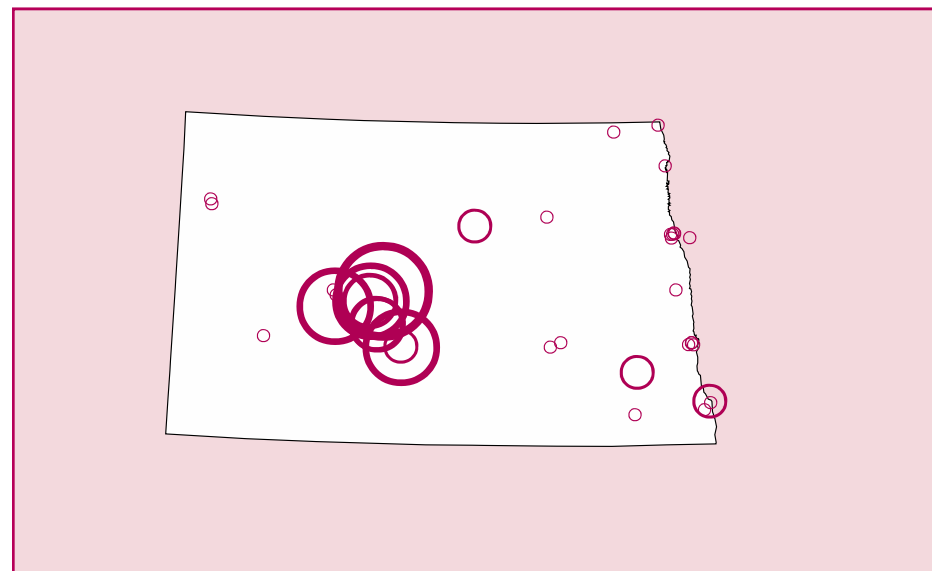
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To obtain TRI data use  
assistance, call TRI User  
Support Service (TRI-US):  
(202) 566-0250  
tri.us@epa.gov



The largest circle in the state map represents the largest facility for on-site releases in the state of North Dakota. All circles are proportionally-sized to represent the on-site releases at each facility within this state.

#### State/TRI Data

Population	636,550
Square Miles	68,994
Total Facilities	47
Total Forms	243
Form As	26

	Total
<b>National Rank for Total On- and Off-site Releases*</b>	
Rank	39
Pounds	25,277,053
<b>National Rank for Total On-site Releases**</b>	
Rank	40
Pounds	16,742,343
<b>National Rank for Total Releases within State***</b>	
Rank	39
Pounds	25,963,973
<b>National Rank for Production-related Waste Managed</b>	
Rank	45
Pounds	32,830,814

- \* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.
- \*\* Includes amounts released at the facility. Excludes amounts transferred to other sites.
- \*\*\* Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



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## NORTH DAKOTA

### On-site and Off-site Releases for Top Five Chemicals Ranked on Total Releases in the State (All Chemicals)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Barium compounds	39,697	22,917	0	9,040,236	6,683,068	15,785,918	0	7,243,068	0
—	Manganese compounds	15,091	16,318	0	1,934,890	1,024,023	2,990,322	0	1,112,023	0
7664-93-9	Sulfuric acid	1,872,430	0	0	0	0	1,872,430	0	0	0
110-54-3	n-Hexane	527,596	0	0	0	0	527,596	0	0	0
7664-39-3	Hydrogen fluoride	490,133	0	0	0	260	490,393	0	0	260

### On-site and Off-site Releases for PBT Chemicals Ranked on Total Releases in the State

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Lead compounds	7,887.45	27.60	0.00	102,028.60	71,494.90	181,438.55	0.00	69,473.60	2,161.30
7439-92-1	Lead	462.80	424.00	0.00	3,512.00	5,166.00	9,564.80	0.00	5,166.00	0.00
—	Mercury compounds	2,293.32	0.40	0.00	278.00	354.82	2,926.54	0.00	356.72	0.10
—	Polycyclic aromatic compounds	189.50	0.00	0.00	28.46	6.34	224.30	0.00	6.34	0.00
1582-09-8	Trifluralin	0.00	0.00	0.00	194.70	0.00	194.70	0.00	0.00	0.00
191-24-2	Benzo(g,h,i)perylene	53.44	0.00	0.00	1.02	0.11	54.57	0.00	0.11	0.00
7439-97-6	Mercury	12.80	0.00	0.00	0.00	0.00	12.80	0.00	0.00	0.00
—	Dioxin and dioxin-like compounds	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
—	<i>Dioxin and dioxin-like compounds (in grams)</i>	<i>5.859</i>	<i>0.000</i>	<i>0.000</i>	<i>0.090</i>	<i>0.000</i>	<i>5.949</i>	<i>0.000</i>	<i>0.000</i>	<i>0.000</i>
309-00-2	Aldrin	—***	—	—	—	—	—	—	—	—
57-74-9	Chlordane	—***	—	—	—	—	—	—	—	—
76-44-8	Heptachlor	—***	—	—	—	—	—	—	—	—
118-74-1	Hexachlorobenzene	—***	—	—	—	—	—	—	—	—
465-73-6	Isodrin	—***	—	—	—	—	—	—	—	—
72-43-5	Methoxychlor	—***	—	—	—	—	—	—	—	—
29082-74-4	Octachlorostyrene	—***	—	—	—	—	—	—	—	—
40487-42-1	Pendimethalin	—***	—	—	—	—	—	—	—	—
608-93-5	Pentachlorobenzene	—***	—	—	—	—	—	—	—	—
1336-36-3	Polychlorinated biphenyls (PCBs)	—***	—	—	—	—	—	—	—	—
79-94-7	Tetrabromobisphenol A	—***	—	—	—	—	—	—	—	—
8001-35-2	Toxaphene	—***	—	—	—	—	—	—	—	—

\* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

\*\*\* No reports were submitted for these chemicals.

\*\* The chemical ranking is based on the amounts in this column.



# 2001 Toxics Release Inventory

## NORTH DAKOTA

### On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (All Chemicals)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection				On-site Releases to Land			Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Great River Energy Coal Creek Station, Underwood, Mc Lean	306,488	328	0	0	0	5,526,939	5,833,754	381,825	0
Basin Electric Power Co-Op Leland Olds Station, Stanton, Mercer	148,655	1,728	0	0	0	2,203,742	2,354,125	739,860	0
Tesoro Petroleum - Mandan Refy., Mandan, Morton	1,901,355	1,050	0	0	0	2,208	1,904,612	43	2,845
Otter Tail Power Co. Coyote Station, Beulah, Mercer	33,073	59	0	0	0	1,618,136	1,651,268	252,566	0
BNI Coal Ltd., Center, Oliver	0	0	0	0	0	1,078,000	1,078,000	0	0
Minnkota Power Cooperative Inc. Milton R Young Station, Center, Oliver	188,208	0	0	0	0	822,501	1,010,709	2,312,004	0
Great River Energy Stanton Station, Stanton, Mercer	96,845	49,551	0	0	0	726,831	873,226	906,415	0
R.M. Heskett Station, Mandan, Morton	325,708	5	0	0	0	236,438	562,151	28,103	0
ADM Northern Sun Div., Enderlin, Ransom	279,360	0	0	0	0	0	279,360	0	0
ADM Processing, Velva, Mc Henry	205,686	0	0	0	0	0	205,686	0	0

### On-site and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (PBT Chemicals)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases	
	Underground Injection				On-site Releases to Land			(Transfers Off-site to Disposal)	
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds		Transferred Within State Pounds	Transferred Out of State Pounds
Great River Energy Coal Creek Station, Underwood, Mc Lean	1,282.70	0.00	0.00	0.00	0.00	61,838.56	63,121.26	22,448.20	0.00
Otter Tail Power Co. Coyote Station, Beulah, Mercer	551.50	13.10	0.00	0.00	0.00	23,110.20	23,674.80	1,234.20	0.00
Minnkota Power Cooperative Inc. Milton R Young Station, Center, Oliver	2,071.11	0.00	0.00	0.00	0.00	15,001.00	17,072.11	6,430.00	0.00
R.M. Heskett Station, Mandan, Morton	40.40	0.00	0.00	0.00	0.00	3,432.05	3,472.45	403.20	0.00
Tesoro Petroleum - Mandan Refy., Mandan, Morton	596.70	14.80	0.00	0.00	0.00	2,203.70	2,815.20	43.02	2,161.40
Basin Electric Power Co-Op. Antelope Valley Station, Beulah, Mercer	2,610.00	0.00	0.00	0.00	0.00	0.00	2,610.00	31,240.00	0.00
Basin Electric Power Co-Op Leland Olds Station, Stanton, Mercer	1,890.00	0.00	0.00	0.00	0.00	142.00	2,032.00	7,860.00	0.00
Great River Energy Stanton Station, Stanton, Mercer	559.53	423.10	0.00	0.00	0.00	120.57	1,103.20	4,807.21	0.00
American Crystal Sugar Co., Hillsboro, Traill	671.91	0.00	0.00	0.00	0.00	0.00	671.91	0.00	0.00
American Crystal Sugar Co., Drayton, Pembina	607.36	0.00	0.00	0.00	0.00	0.00	607.36	0.00	0.00

\* The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



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## NORTH DAKOTA

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (All Chemicals)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Great River Energy Coal Creek Station, Underwood, Mc Lean	0	0	0	0	154,800	0	6,213,821	6,368,621	0
Basin Electric Power Co-Op. Antelope Valley Station, Beulah, Mercer	0	0	0	0	0	0	4,665,550	4,665,550	0
Minnkota Power Cooperative Inc. Milton R Young Station, Center, Oliver	0	0	0	0	0	0	3,252,380	3,252,380	0
Basin Electric Power Co-Op Leland Olds Station, Stanton, Mercer	0	0	0	0	0	0	3,124,850	3,124,850	0
Tesoro Petroleum - Mandan Refy., Mandan, Morton	0	1,416	0	9	1,746,572	168	1,906,228	3,654,393	0
Otter Tail Power Co. Coyote Station, Beulah, Mercer	0	0	0	0	760,000	0	1,895,070	2,655,070	0
Great River Energy Stanton Station, Stanton, Mercer	0	0	0	0	0	0	1,779,823	1,779,823	0
BNI Coal Ltd., Center, Oliver	0	0	0	0	0	0	1,078,000	1,078,000	0
R.M. Heskett Station, Mandan, Morton	0	2,800	0	0	243,000	0	596,968	842,768	0
ADM Northern Sun Div., Enderlin, Ransom	0	0	0	0	0	1,190	279,360	280,550	0

### Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (PBT Chemicals)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production- related Waste Managed Pounds	Total Non- Production- related Waste Managed Pounds
Great River Energy Coal Creek Station, Underwood, Mc Lean	0.00	0.00	0.00	0.00	0.00	0.00	85,604.00	85,604.00	0.00
Basin Electric Power Co-Op. Antelope Valley Station, Beulah, Mercer	0.00	0.00	0.00	0.00	0.00	0.00	33,650.00	33,650.00	0.00
Otter Tail Power Co. Coyote Station, Beulah, Mercer	0.00	0.00	0.00	0.00	0.00	0.00	24,550.00	24,550.00	0.00
Minnkota Power Cooperative Inc. Milton R Young Station, Center, Oliver	0.00	0.00	0.00	0.00	0.00	0.00	23,380.00	23,380.00	0.00
Basin Electric Power Co-Op Leland Olds Station, Stanton, Mercer	0.00	0.00	0.00	0.00	0.00	0.00	9,850.00	9,850.00	0.00
Great River Energy Stanton Station, Stanton, Mercer	0.00	0.00	0.00	0.00	0.00	0.00	6,093.00	6,093.00	0.00
Tesoro Petroleum - Mandan Refy., Mandan, Morton	0.00	0.00	0.00	0.00	0.00	0.00	5,060.00	5,060.00	0.00
R.M. Heskett Station, Mandan, Morton	0.00	0.00	0.00	0.00	0.00	0.00	3,869.00	3,869.00	0.00
American Crystal Sugar Co., Hillsboro, Traill	0.00	0.00	0.00	0.00	0.00	0.00	672.00	672.00	0.00
American Crystal Sugar Co., Drayton, Pembina	0.00	0.00	0.00	0.00	0.00	0.00	607.00	607.00	0.00

\* The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.